The Home Shop Machinist

Volume Twenty-two Index

2003

January/February – J/F
March/April – M/A
May/June – M/J
July/August – J/A
September/October – S/O
November/December – N/D

B

BAILEY, ROBERT L.
- Lathe Ball Making Accessory Part 1 N/D 10

BARTLETT, TOM
- Small Parts Holder for Silver Soldering S/O 35

BOOK REVIEWS
- Five Hundred and Seven Mechanical Movements – Astragal M/A 66
- Taig Lathe, The – DivisionMaster Press J/A54

Build the Radial Five
- Part 1 M/J 16
- Part 2 J/A 38
- Part 3 S/O 57
- Part 4 N/D 60

BYE, WESTON
- Geneva Mechanism, The J/F 31

C

CHASTAIN, STEPHEN
- Essential Reading for the Home Shop Machinist – Good Books That Won't Break Your Budget N/D 56
- Rebuild a Cylinder Head J/A 10

Chips & Sparks
- Improved Bender J/A 73
- Get a Handle N/D 74
- Quick-change Parting Tool Holder J/A 73
- Replacing Brad-Nailer O-Rings N/D 74
- Temporary Marking on Metal J/F 71

CLARKE, TIM
- Chips & Sparks Get a Handle N/D 74
- Simple Turret for the Atlas/Craftsman 12" Lathe, A N/D 18

CLUB HOUSE, THE
- Portland (MI) Machinist Guild Contest J/A 74

CNC
- (see FRIESTAD, ROLAND)

COHON, HAROLD
- Look at the Grizzly G9950 Shear/Brake, A N/D 38

Compact Double-action Indicator, A
- Part 2 J/F 64
- Part 3 M/A 46

COMPUTERS

Computers in the Shop
- (see FRIESTAD, ROLAND)

CONSTANTINE, RANDOLPH
- Heat Treating Steel – An Amateur's View N/D 50

D

Different Approach to Small Flywheel Machining, A J/F 36

Disk-cutting Fixtures for the Lathe S/O 24

E

Easy Threading Tool Sharpener S/O 42

Electrical Discharge Machining – Removing Metal by Spark Erosion
- Part 7 – Mechanical Components of a Wire EDM J/F 26
- Part 8 – Methods of Cutting and an Introduction to the Spooler for a Wire EDM M/A 44
- Part 9 – The Timing Pulleys for a Wire EDM Spooler M/J 50
- Part 10 – Drive Pulleys and Motor for a wire EDM Spooler J/A34
- Part 11 – The Drum, Axle, Limit Switch, Frames and Bearings S/O 50
- Part 12 – Wire Tensioner, Wire Tap and Wire Itself N/D 44

ELECTRONICS

ERICKSON, DON
- Milling Vise Alignment N/D 34

ESSELBURNE, PETER C.
- Make a Hub Wrench J/A 65

Essential Reading for the Home Shop Machinist – Good Books That Won't Break Your Budget N/D 56

Excellent, Affordable Drill Bit Sharpener, An J/F 41

Experimenting With Fly Cutters N/D 28

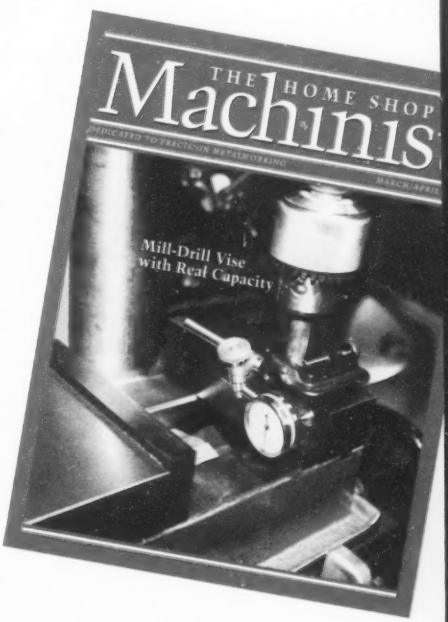
F

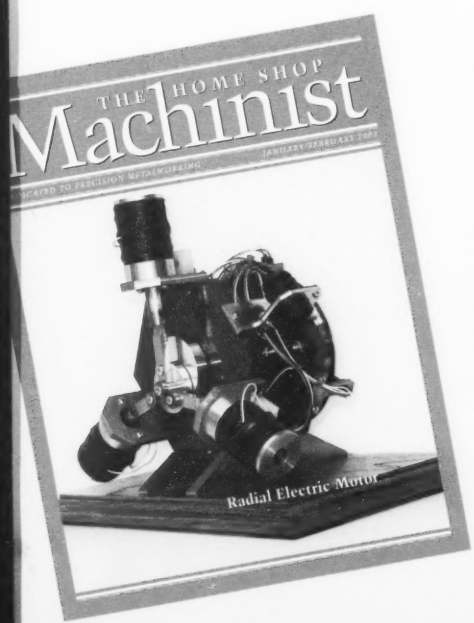
Finish That Micrometer Box J/A 56

FIRST LOOK
- Fisher Machine Offers 1/4" Shank Edge Finders N/D 74
- For the IC Hobbyist – Plans from Dale Detrich J/F 75
- Giant 2003 Catalog from Grizzly M/J 78
- Handy Little Lathe Chart from Littlelocos M/J 79
- Heli-Tube Now From Newman Corporation M/A 79
- High Performance Paint and Gasket Remover – Sprayon M/J 80
- J&E "Junior" Engine Plans – John S. Palmer M/J 79
- Logan Actuator Relocates N/D 74
- Low Cost Metric Ball Screws from Techno N/D 73
- Maxiflex Hoses Now from Wiha N/D 73
- Megabrite From Rex-Cut Products J/F 76
- Mini Tram and Micro Tram – Accudyne N/D 73
- New Angle Grinder from DeWALT J/F 75
- New Bison 4" 5C Collet Chuck – New England Brass J/A 79
- New Bison 4" six-jaw Set-Tru Chuck – New England Brass N/D 73
- New Grinders and Buffers – Palmgren J/A 79
- New Hand Ointment – Rough Hand Repair J/A 79
- New Lathe Bed Extension Kit – LittleMachineShop.com M/J 79
- New Mill Alignment Tool – EZ-TRAM J/F 75
- New Value Line Drill Presses – Dake J/A 79
- On-line MIG Welding Basics – Miller J/F 75
- Remachineable Shaft Collars – Stafford Mfg M/J 78
- Sherline Adds New Inserted Boring Tools N/D 74
- Version 18 Software Training Released by BobCAD M/A 79
- Version 19 Software Now Available from BobCAD-CAM N/D 73

FRIESTAD, ROLAND

Computers in the Shop
- N.A.M.E.S Show CNC Department, The J/A 68
- Reclaiming a Bridgeport Series I CNC Milling Machine
  - Part 1 S/O 68
  - Part 2 N/D 66





Universal CNC Controller –
Part 1 J/F 56
Part 2 M/A 56
Part 3 M/J 70
From the Editor
(see KNOPF, NEIL)
Functional Sheet Metal Enclosures from Sheet Brass and Aluminum S/O 10

G

GEIB, RANDAL
Chips & Sparks
Quick-change Parting Tool Holder J/A 73
Geneva Mechanism, The J/F 31
GENEVRO, GEORGE
Two-stroke Cycle Model Engines – A Look at Basic Concepts J/A 60
Titanium – A Metal For the Space Age S/O 62
Get a Handle
Chips & Sparks N/D 74
Get Straight to the Point with The Drill Doctor J/A50

H

Handy Material Rack, A J/A 25
Hang That File S/O 26
Heat Treating Steel – An Amateur's View N/D 50
HOLM, PAUL
Mill-Drill Vise with Real Capacity M/A 16

I

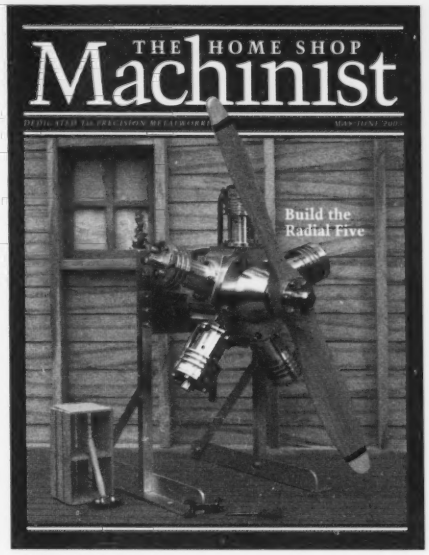
Improved Bender
Chips & Sparks J/A 73
Indexable Carbide Insert End Mill M/J 66
INGRAHAM, GEORGE
Get Straight to the Point with The Drill Doctor J/A50
"Spring Fever" – Winding Your Own M/J 30
INTERNAL COMBUSTION ENGINES
Two-stroke Cycle Model Engines – A Look at Basic Concepts J/A 60

J

JENKS, Michael
Indexable Carbide Insert End Mill M/J 66
JOHNSON,William
Finish That Micrometer Box J/A 56
Hang That File S/O 26
JORDAN, BARRY
"Outstanding Metalworking Craftsman" for 2003 is Barry Jordan, The M/A 15

K

KNOPF, NEIL
From the Editor J/F 4, M/A 4, M/J 4, J/A 4, S/O 4, N/D 4
Book Review
Five Hundred and Seven Mechanical Movements – Astragal M/A 66
Taig Lathe, The – Division Master Press J/A54
Tinsmith's Helper and Pattern Book, The – Astragal S/O 28
KOUHOUPT, RUDY
Lifetime Achievement Award Presented to Rudy Kouhoupt S/O 21
Micro Machinist, The
Compact Double-action Indicator, A
Part 2 J/F 64
Part 3 M/A 46
Build the Radial Five
Part 1 M/J 16
Part 2 J/A 38



Part 3 S/O 57
Part 4 N/D 60

L

LAJOINIE, RENE
Chips & Sparks
Improved Bender J/A 73
LANGLOIS, ROBERT P.
Electrical Discharge Machining – Removing Metal by Spark Erosion
Part 7 – Mechanical Components of a Wire EDM J/F 26
Part 8 – Methods of Cutting and an Introduction to the Spooler for a Wire EDM M/A 44
Part 9 – The Timing Pulleys for a Wire EDM Spooler M/J 50
Part 10 – Drive Pulleys and Motor for a wire EDM Spooler J/A34
Part 11 – The Drum, Axle, Limit Switch, Frames and Bearings S/O 50
Part 12 – Wire Tensioner, Wire Tap and Wire Itself N/D 44
Lathe Ball Making Accessory
Part 1 N/D 10
LATHE, FOR THE
Lathe Ball Making Accessory
Part 1 N/D 10
Disk-cutting Fixtures for the Lathe S/O 24
Radius Cutting Tool for the Grizzly G4015Z Mill-Lathe, A M/J 60
Simple Turret for the Atlas/Craftsman 12" Lathe, A N/D 18
Transplant a Compound Gear Assembly S/O 22
LEWIS, OLEN
Chips & Sparks
Replacing Brad-Nailer O-Rings N/D 74
Lifetime Achievement Award Presented to Rudy Kouhoupt S/O 21
Look at the Grizzly G9950 Shear/ Brake, A N/D 38

M

Machining in the 21st Century J/F 39
Machinist's Challenge Results, 2003 S/O 20
MACMANUS, DAVID R.
Repairing "Old Iron" J/A 18
MAIER, JEFFREY
Radial Electric Motor –
Part 1 J/F 3
Part 2 M/A 20
Part 3 M/J 36
Make a Hub Wrench J/A 65
MARTIN, JOE
Machining in the 21st Century J/F 39
MCCLELLAN, CHET
Experimenting With Fly Cutters N/D 28
MCDOWELL, THEODORE M.
Thread Substitutions S/O 30
METALURGY
Heat Treating Steel – An Amateur's View N/D 50
Titanium – A Metal For the Space Age S/O 62
Micro Machinist, The
(see KOUHOUPT, RUDY)
Mill-Drill Vise with Real Capacity M/A 16
MILLING MACHINE, FOR THE
Computers in the Shop
Universal CNC Controller –
Part 1 J/F 56
Part 2 M/A 56
Part 3 M/J 70
Experimenting With Fly Cutters N/D 28
Indexable Carbide Insert End Mill M/J 66
Mill-Drill Vise with Real Capacity M/A 16
Milling Vise Alignment N/D 34
Milling Vise Alignment N/D 34

N

N.A.M.E.S Show CNC Department, The J/A 68
NEIDORFF, ROBERT
Chips & Sparks
Temporary Marking on Metal J/F 71

O

O'NEIL, DAVID
Excellent, Affordable Drill Bit Sharpener, An J/F 41
"Outstanding Metalworking Craftsman" for 2003 is Barry Jordan, The M/A 15

P

PRESTRIDGE, FRED
- Different Approach to Small Flywheel Machining, A — J/F 36

PRODUCT REVIEW
- Look at the Grizzly G9950 Shear/Brake, A — N/D 38
- Using the Lincoln Electric *Invertec* V-160-S Welder — S/O 46

PROJECTS
- Build the Radial Five
  - Part 1 — M/J 16
  - Part 2 — J/A 38
  - Part 3 — S/O 57
  - Part 4 — N/D 60
- Different Approach to Small Flywheel Machining, A — J/F 36
- Electrical Discharge Machining – Removing Metal by Spark Erosion
  - Part 7 – Mechanical Components of a Wire EDM — J/F 26
  - Part 8 – Methods of Cutting and an Introduction to the Spooler for a Wire EDM — M/A 44
  - Part 9 – The Timing Pulleys for a Wire EDM Spooler — M/J 50
  - Part 10 – Drive Pulleys and Motor for a wire EDM Spooler — J/A34
  - Part 11 – The Drum, Axle, Limit Switch, Frames and Bearings — S/O 50
  - Part 12 – Wire Tensioner, Wire Tap and Wire Itself — N/D 44
- Functional Sheet Metal Enclosures from Sheet Brass and Aluminum — S/O 10
- Geneva Mechanism, The — J/F 31
- Make a Hub Wrench — J/A 65
- Radial Electric Motor –
  - Part 1 — J/F 3
  - Part 2 — M/A 20
  - Part 3 — M/J 36
- Rebuild a Cylinder Head — J/A 10
- Repairing "Old Iron" — J/A 18
- Small Parts Holder for Silver Soldering — S/O 35
- Swivel Blocks — M/A 50
- Vandy Electric Scooter, The
  - Part 2 — J/F 46
  - Part 3 — M/A 32
  - Part 4 — M/J 20
  - Part 5 — J/A 41
  - Part 6 — S/O 38

Q

- Quick-change Parting Tool Holder Chips & Sparks — J/A 73

R

- Radial Electric Motor –
  - Part 1 — J/F 3
  - Part 2 — M/A 20
  - Part 3 — M/J 36
- Radius Cutting Tool for the Grizzly G4015Z Mill-Lathe, A — M/J 60
- Rebuild a Cylinder Head — J/A 10
- Reclaiming a Bridgeport Series I CNC Milling Machine
  - Part 1 — S/O 68
  - Part 2 — N/D 66
- Repairing "Old Iron" — J/A 18
- Replacing Brad-Nailer O-Rings Chips & Sparks — N/D 74

ROBERTS, STEPHEN J.
- Handy Material Rack, A — J/A 25

ROUBAL, WILLIAM T.
- Functional Sheet Metal Enclosures from Sheet Brass and Aluminum — S/O 10

S

- Sharpening HSS Lathe Tool Bits — J/A 28

SHOP IMPROVEMENTS
- Easy Threading Tool Sharpener — S/O 42
- Essential Reading for the Home Shop Machinist – Good Books That Won't Break Your Budget — N/D 56
- Excellent, Affordable Drill Bit Sharpener, An — J/F 41
- Finish That Micrometer Box — J/A 56
- Get Straight to the Point with The Drill Doctor — J/A50
- Handy Material Rack, A — J/A 25
- Hang That File — S/O 26
- "Spring Fever" – Winding Your Own — M/J 30
- Milling Vise Alignment — N/D 34
- Simple Turret for the Atlas/Craftsman 12" Lathe, A — N/D 18
- Small Parts Holder for Silver Soldering — S/O 35

SPARBER, RICK
- Using the Lincoln Electric *Invertec* V-160-S Welder — S/O 46

SOKOL, JERRY L.
- Radius Cutting Tool for the Grizzly G4015Z Mill-Lathe, A — M/J 60
- "Spring Fever" – Winding Your Own — M/J 30
- Swivel Blocks — M/A 50

SZWARC, BERNARD
- Disk-cutting Fixtures for the Lathe — S/O 24

T

TECHNIQUE
- Sharpening HSS Lathe Tool Bits — J/A 28
- Thread Substitutions — S/O 30

- Temporary Marking on Metal Chips & Sparks — J/F 71
- Thread Substitutions — S/O 30
- Titanium – A Metal For the Space Age — S/O 62
- Transplant a Compound Gear Assembly — S/O 22
- Two-stroke Cycle Model Engines – A Look at Basic Concepts — J/A 60

U

- Universal CNC Controller –
  - Part 1 — J/F 56
  - Part 2 — M/A 56
  - Part 3 — M/J 70
- Using the Lincoln Electric *Invertec* V-160-S Welder — S/O 46

V

VANDIVER, GLENN
- Vandy Electric Scooter, The
  - Part 2 — J/F 46
  - Part 3 — M/A 32
  - Part 4 — M/J 20
  - Part 5 — J/A 41
  - Part 6 — S/O 38

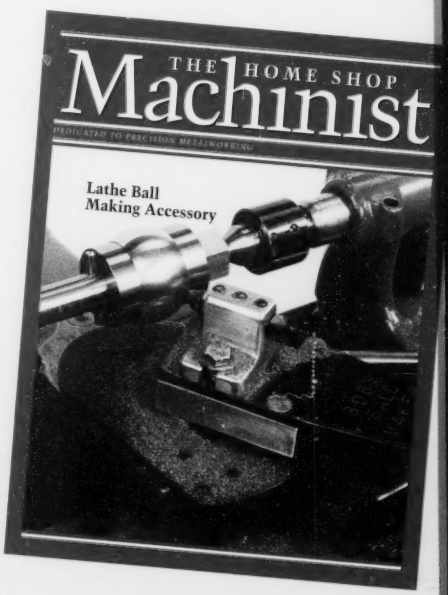
- Vandy Electric Scooter, The
  - Part 2 — J/F 46
  - Part 3 — M/A 32
  - Part 4 — M/J 20
  - Part 5 — J/A 41
  - Part 6 — S/O 38

W

WELLCOME, STEPHEN G.
- Sharpening HSS Lathe Tool Bits — J/A 28

WILSON, GLENN
- Easy Threading Tool Sharpener — S/O 42

Y

YETMAN, WALTER
- Swivel Blocks — M/A 50

YOHE, HERBERT
- Transplant a Compound Gear Assembly — S/O 22